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Attorney Docket No.01447/LH

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): M. UCHINO et al

Serial No.

: Based on

PCT/JP00/09139

Filed

: Herewith

For

: WANDER GENERATOR, AND DIGITAL LINE TESTER AND PHASE

NOISE TRANSFER...

Art Unit

Examiner

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🖊 Barbara Villani

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PRELIMINARY AMENDMENT

Hon. Commissioner of Patents and Trademarks

SIR:

IN THE SPECIFICATION:

Page 1: Please insert the following as the first sentence (a copy of marked-up page 1 is attached):

-- This application is a U.S. National Phase Application under 35 USC 371 of International Application PCT/JP00/09139 (not published in English) filed December 22, 2000.--

IN THE CLAIMS:

Please substitute amended claims 6 and 15 as follows:

6. (amended) A wander generator according to claim 3, characterized by further comprising initial setting means for initially setting values equivalent to stored values stored in said respective storage elements in a steady state in which the clock signal having the wander of the desired characteristic is

being output to said respective storage elements included in the filter unit at least in an initial phase of operation of said apparatus through a path different from a signal input path in the steady state.

15. (amended) A wander generator according to claim
10, characterized in that said noise generating means has a
plurality (m) of sets of pseudo random signal generating means
for generating pseudo random codes of M sequence at initial
phases different from one another, and is configured to collect
outputs at predetermined stages of said respective pseudo random
signal generating means to output an m-bit parallel white
noise signal.

Please add the following new claims:

- --22. (new) A wander generator according to claim 5, characterized by further comprising initial setting means for initially setting values equivalent to stored values stored in said respective storage elements in a steady state in which the clock signal having the wander of the desired characteristic is being output to said respective storage elements included in the filter unit at least in an initial phase of operation of said apparatus through a path different from a signal input path in the steady state.
- 23. (new) A wander generator according to claim 14, characterized in that said noise generating means has a plurality (m) of sets of pseudo random signal generating means for generating pseudo random codes of M sequence at initial

phases different from one another, and is configured to collect outputs at predetermined stages of said respective pseudo random signal generating means to output an m-bit parallel white noise signal.--

REMARKS

In accordance with 37 CFR 1.121(c), a clean copy of amended claims 6 and 15 is set forth in the present Amendment, and a marked-up version of the amended claims 6 and 15 is attached hereto.

The amendment is being made to eliminate the multiple dependencies of the claims.

Respectfully submitted,

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LH/bv

VERSION WITH MARKINGS TO SHOW CHANGES MADE

Claims 6 and 15 have been amended as follows:

- 6. (amended) A wander generator according to claim 3 [or 5], characterized by further comprising initial setting means for initially setting values equivalent to stored values stored in said respective storage elements in a steady state in which the clock signal having the wander of the desired characteristic is being output to said respective storage elements included in the filter unit at least in an initial phase of operation of said apparatus through a path different from a signal input path in the steady state.
- [or 14], characterized in that said noise generating means has a plurality (m) of sets of pseudo random signal generating means for generating pseudo random codes of M sequence at initial phases different from one another, and is configured to collect outputs at predetermined stages of said respective pseudo random signal generating means to output an m-bit parallel white noise signal.

DESCRIPTION

WANDER GENERATOR, AND DIGITAL LINE TESTER AND PHASE NOISE TRANSFER CHARACTERISTIC ANALYZER USING SAME

Technical Field

The present invention relates to a wander generator, and a digital line tester and a phase noise transfer characteristic analyzer using the same, and more particularly, to a wander generator which generates a clock signal having wander, and a digital line tester and a phase noise transfer characteristic analyzer using the same.

Among them, the phase noise transfer characteristic analyzer is particularly related to a phase noise transfer characteristic analyzer for analyzing a transfer characteristic for a signal having phase noise associated with a device which transmits a clock signal or a digital signal, wherein the phase noise transfer characteristic analyzer employs a technique for properly evaluating a phase noise transfer characteristic of a device under analysis in a short measuring time.

Background Art

As is well known, a digital signal transmitted over a digital line is affected by noise or the like on a transmission path to experience fluctuating phase.

In the fluctuations of the phase, components in

This application is a U.S. National Phase Application under 35 USC 371 of International Application PCT/JP00/09139 (not published in English) filed December 22, 2000.

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TRANSLATION

I, Yasuyuki Sasaki, residing at 1-3-1-204, Higashimonzen, Kawasaki-ku, Kawasaki-shi, Kanagawa-ken, Japan, state:

that I know well both the Japanese and English languages;

that I translated, from Japanese into English, the description, claims, abstract and drawings of International Application No. PCT /JP00/09139, filed December 22, 2000;

that the sheet next following this sheet is a copy of the Request of the said application as published as International Publication and is attached hereto in liue of an English translation of the Request in the said application; and

that the attached English translation is a true and accurate translation to the best of my knowledge and belief.

Dated: July 23, 2001

Yasuyuki Sasaki